

SCH 13/30_IFR

ESD line

06.05.2011 - Rev. 4

MOLDED GRATINGS

Mesh	mm 40 x 40 main	
	mm 20 x 20 secondary	
Clear span	mm 13 x 13	
Height	mm 30	
Bearing bar thickness	mm 7 upper part	
	mm 5 bottom part	
Color	Top Coat Black	

Raw materials	Polyester Resin
	Roving glass fiber type "E"
	Inorganic fillers without halogens

Resin type	Modulus of elasticity	Ultimate stress
IFR	15000 MPa	325 MPa

Standard panels					
mm 1007 x 3007					
Weight kg/m² 19	<table border="1"> <tr> <td>tolerance</td> <td>± mm 5 panel dimensions</td> </tr> <tr> <td></td> <td>± mm 2 height</td> </tr> </table>	tolerance	± mm 5 panel dimensions		± mm 2 height
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	± mm 2 height				

IFR-ESD line	Top Coat Polyester with Carbon black conductive powder
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Surface	A	Quartz	Antiskid level R13 V10 norm DIN 51130
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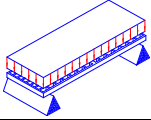
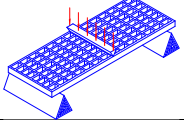
Reaction to fire	Fire retardant	Spread ≤ 25 norm ASTM E84-98
		ASTM D635 Elapsed time and burned length < 25 mm

Surface and Volume electrical resistivity. Dielectric strength	<p>Antistatic Dissipative</p>	<p>EN 61340-2.3 Par. 8.1 and 8.2 – IEC 61340-4.1 Par. 5.1.2 ref. ISO 1957 – IEC 61340-4.5 – ASTM D149-97a</p>
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LOADS

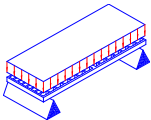
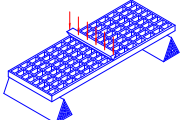
MAXIMUM SUGGESTED LOADS

Type of support	On the line of the two ends of the panel
Limits determined by	Deflection (load sagging)
the maximum deflection admitted , is 1/200 of the distance between the supports	
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the panel width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.	

DISTRIBUTED LOAD			CONCENTRATED LOAD		
					
Distance between supports	Load with deflection equal to 1/200	Load with deflection equal to 1/100	Distance between supports	Load with deflection equal to 1/200	Load with deflection equal to 1/100
[cm]	[kg/m ²]		[cm]	[kg/m]	
50	2250	4500	50	700	1400
70	800	1650	70	350	700
90	350	750	90	200	400
110	200	400	110	100	250

All lighter loads are admitted

Limits determined by	Admitted stresses (stress determined by the load)
the maximum admitted stress is 1/5 of the ultimate stress (safety factor is equal to 0.20 – the ultimate stress is 5 times the specified load)	

DISTRIBUTED LOAD		CONCENTRATED LOAD	
			
Distance between supports	Maximum admitted load	Distance between supports	Maximum admitted load
[cm]	[kg/m ²]	[cm]	[kg/m]
50	5250	50	1300
70	2650	70	900
90	1600	90	700
110	1050	110	550

All lighter loads are admitted

- The above characteristics are meant as reference values for standard material in ambient working temperature. Even if they are not to be considered as guaranteed characteristics they are based on our experience and are supplied in good faith.
- According to the standard DIN 24537-3 the conversion safety factor should be 0.75 for internal environmental exposure conditions, 0.65 for external exposure conditions, and 0.50 for aggressive exposure conditions.
- No matter which are the exposure conditions, chemical resistance must be always verified by contacting M.M. technical department.
- In case of heavy duty load compressive strength must be verified.